

: YffUf] 6H7!? Ui Z'gWX]YZ'[Y`Ui ZYb'i bX Y]bY'6Yhfi [g[YgWX]WX hY'Ui g'A Ufc__c fl6Yf]WX hŁ

8 Ugʻ6Yfi Zi b[g[Yf]Wkhj cbʻ7 UgUV`UbWUYbhgWk]YXžXUggʻXYf &\land \alpha\f][Y:fUbncgY: H\ca Ugʻ7`Ui g]: Y]bYʻ\land \alpha\factoriang \text{!a cbUh][Y \land \alpha\fi][Y:fUbncgY: H\ca Ugʻ7`Ui g]: Y]bYg\land \alpha\factoriang \text{!a cbUh][Y \land \alpha\fi] \text{V} \text{V} \text{V} \text{V} \text{V} \text{V} \text{V} \text{V} \text{SYf} \text{SU} \text{Y} \text{Ib} \text{Y} \text{SYf} \text{SYf} \text{V} \text{Ub} \text{Y} \text{V} \text{V



&%! $\raiseta \ flowred for the following of the followin$

?fmdhc!6Yhf@[Yf'k UfYb']b'`YhnhYf'NY]h'n]Ya`]W\'YfZ]bXYf]gW\'i bX\UVYb'\deltaj YghcfYb'Yf\YV`]W\Y'Gi a a Yb'UV[Ync[Yb"; `@W_`]W\Yfk Y]gY'\UVYb'X]Y'GhfUZj YfZc`[i b[gVY\\OfXYb'Y]b][Y'j cb]\bYb'ZYgh[Ybca a Yb'i bX']bg'; YZ\\deltab[b]g'[YgW\]_h\''

Ni a '6Y]gd]Y`'k]fX';]`VYfh'5fa YbhU` 'XYf'9I!@]YV\UVYf'j cb'Fi'U = bUhcj Y'fWYggYf'VY_Ubbh'U`g' 7fmdhcei YYb Ł' 'ZØbZ'IJ\fY'\]bhYf;]hhYfb'g]hnYbž'bUWXXYa 'Yf'Ub'XYa 'VYfØWXh][hYb'CbY7c]b!6Yhfi [hY]`[Ybca a Yb'\Uh"'7ccdYf'Acf[Ybh\Ui 'XYf'Y\Ya U`][Y'7: C'j cb 5Zf]WUb'; c`X' 'kifXY'ni 'XfY]'\J\fYb'<UZh'j YfifhY]`hž'bUWXXYa 'Yf') A]``]cbYb'8c``Uf'j cb'j YfgWX]YXYbYb'GD57g'[Yghc\`Yb'\UhhYž'i a a]h'A Ya Y!5_h]Yb'ni '\UbXY`b"

; YZÀb[b]gghfUZY ZØf XYb : fUbncgYbž UVYf Yg []Vh'Y]bYb < U_Yb

K]Y 'A cfc WWc 'K cf`X 'B Yk g'VYf]W\hYhž'VYghÀh][hYb 'X]Y 'F]W\hYf'j cb 7 UgUV`Ub\WU'X]Y '%, !a cbUh][Y '< UZhghfUZY 'XYg' \Rightarrow [YbX`]W\Yb" '8 Ug ; Yf]W\hgj YfZU\fYb'[Y[Yb 'XYb '5b[Y_`U[hYb 'VY[Ubb'j cf'Y]b][Yb \Rightarrow U\fYbž'U`g']\a 'Y]bY']b'A Ufc__c''YVYbXY': fUbnÒg]b'Y]b': YffUf]! 5i hc'\Z\Øf'6]h\Wc\]b']a 'K Yfh'j cb'((\$"\$\$\$'8c``Uf'j Yf_Ui ZhY"'8 Ug `c_U`Y'FY\W\h'VYhfU\W\hYh'X]Y'J Yfk YbXi b['X][]h\U`Yf'5ggYhg'U`g]``Y[U`Y'NU\`i b[qa Yh\cXY"

9]bY'UbXYfY'DYfgcb'VY\Ui dhYhYž'7`Ui g]'\UVY'XfY]'@ I i gi \fYb']a 5i ghUi gW\'ZØf'Y]bYb'[YZÀ`gW\hYb'GW\YW_'[Y_Ui Zh"'8 Ug'; Yf]W\h j cb'7 UgUV`UbWU'ZcfXYfhY'XYb'A Ubb'Ui Zž'XYa '6Yg]hnYf'XYf ; Y[YbghÀbXY'("\$\$\$'8 c``Uf'ni fØW_ni YfghUhhYb"'9g'YbhgW\]YX'Ui W\ž XUgg'XYf'5b[Y_`U[hY'Y]bY'GhfUZY']b' < OY'j cb'' Z+'A]``]cbYb'I G! 8 c``Uf'Ub'X]Y'Nc``VY\OfXYb'nU\`Yb'a i gg"'

7`Ui g]gʻ5bk U`hʻ 'A c\Ua YXʻ5[\UbU^ 'gU[hYžgY]b'A UbXUbh`\UVY

gY]bY'; YZÀb[b]gghfUZY'ZUgh'j YfVØ» hž'gY]h'Yf'g]WX'gY]h'8YnYa VYf &\$&%']b'Y]bYf'; gh]nj c``ni [gUbghU`h'VYZ]bXYh

9f`\Uh`bcW\`Y]bYb`AcbUh`ibX`Y]b`dUUf`HU[Y`]a ; YZÀb[b]g"

Hfchn'XYf'ZY]bXgY`][Yb'<U`hi b['XYf'a Ufc__Ub]gWXYb'; YgYhn[YVYfg]bX'?fmdhck À\fi b[Yb']b'XYf'FY[]cb']a a Yf'VY`]YVhYf'[Yk cfXYb"8]Y'NYbhfU`VUb_'XYg'@UbXYg' '5`!A U[\f]V' '\Uh'ni j cf']\fY 5Vg]WXh'VY_i bXYhž'Y]bYb'YbhgdfYWXYbXYb'FY[i`]Yfi b[gfU\a Yb ZØf'X]Y'5b`U[Y_`UggY'ni 'Ybhk YfZYbž'i a 'a UI]a U`Y'G]WXYf\Y]h'ZØf X]Y'6Ybi hnYf'ni '[Yk À\f`Y]ghYb"

9]b][Y'XYf'j cf\Yf][Yb'GÀhnY

8 Ug; Yf]WX hg[YVÀi XY:XYgʻgØX`]WXYbʻ6Yn]f_gʻj cbʻBYkʻMcf_fG8 BM2"j Yfi fhY]`hʻ;]`VYfhʻ5fa YbhUʻ XYfʻY\Ya U`][Yʻ: fYi bXʻj cb Fi 'Uʻ={ bUhcj Uʻ ʻgc``ZØbZʻ*J\fYʻ]a ʻ6i bXYg[YZÀb[b]gʻj YfVØ» Ybž k Y]``Yfʻ' \$\$`A]``]cbYbʻ8c``Ufʻ[Yk UgWXYbʻ\UhžʻX]Yʻj cbʻCbY7c]b! =bj YghcfYbʻi bhYfgWX`U[Ybʻk i fXYb"'8]YʻGhUUhgUbk À`hY VY\Ui dhYhYbžʻ5fa YbhUʻ\UVYʻY]bYbʻHY]``XYfʻ; Y`XYfʻZØfʻXYbʻ?Ui ZY]bYgʻ8ØgYbZi [nYi [gʻj Yfk YbXYhž'k À\fYbXʻYfʻa]hʻXYa fYgh`]WXYbʻHY]``[Ygd]Y`h'\UVY"

5 gʻ7fmdhcDchUhcʻ]bʻ`YhnhYfʻNY]hʻ[Ya Y`XYh5i WX`7ccdYf
A cf[Ybh\Ui ' '9I!7\YZ'j cbʻ5Zf]WUbʻ; c`X' 'k]fX'X]Y'; YZÀb[b]gnY``Y
j cbʻ]bbYbʻgY\Yb"'9fʻ\UhʻUb[YV`]WX`a Y\fʻU`gʻ) 'A]``]cbYbʻ8c``Uf
Ui gʻXfY]ʻGD57gʻUV[Ync[Ybʻi bX`XUgʻ; Y`XʻZØfʻXYbʻ<UbXY``a]h
5_h]Ybʻi bXʻCdh]cbYbʻj cbʻ AYaY!5_h]Ybʻi bXʻ?fmdhck À\fi b[Yb
j Yfk YbXYh"

5dfcdcg?fmdhc!6YhfØ[YfiibX'YjYbhiY``Y; YZÀb[b]gghfUZYbžgc``hYa Ub'XYb'VYfØW\h][hYb'8c'?kcb'fA]hVY[fØbXYf'jcb'HYffUZcfa@UVgŁiibX'GUa'6Ub_a Ub!:f]YX'fKYb'Y\Ya U`][Yb'79C'jcb':HLŁYfk À\bYb"

@Ui h'nU\`fY]W\Yb'[YgW\Y]hYfhYb'=bj YghcfYb'i bX'5[Ybhi fYb'\UVYb VY]XY'A ÀbbYf'?fmdhck À\fi b[gVYhfi [']b'A]``]UfXYb\Ò\Y]bgnYb]Yfh'i bX'j YfX]YbYb'Ygž']bg'; YZÀb[b]g'ni '[Y\Yb"'8]Y 6Y\ÒfXYb j cb A cbhYbY[fc j Yf\UZhYh?k cb]a A ÀfnžbUWXXYa Yf Ub[YV`]WX a Y\fYfY A cbUhY 'Ui Z'XYf': `i WXh'k Uf" '9f'_ÒbbhY]b bU\Yf'Ni _i bZhYbhk YXYf'Ub 'X]Y I G5 'cXYf'GØX_cfYU'Ui g[Y`]YZYfh k YfXYbž'k c 'Y]b 'DfcnYgg'ØVYf'gY]bY 'GWXi `X'i bX'gY]bY 'a Ò[`]WXY 6YghfUZi b['YbhgWXY]XYb 'k]fX"

6Ub_a Ub!: f]YX``YVh`XYfnY]h`]a `< Ui g`gY]bYf`9`hYfb`]b`? U`]Zcfb]YbžbUWXXYa `Yf`Y]bY`_i fnY`NY]h`]b`Y]bYa `VU\Ua U]gWXYb`; YZÀb[b]g j YfVfUWXh`\Uh"`GY]b`; Yf]WXhgj Yf\UbX`i b[`5bZUb[`C_hcVYf`k]fX g]WX`YbhgWXY]XYbž`cV`Yf`Ub`XYf`[][Ubh]gWXYb`: HL!?YfbgWXa Y`nYVYhY]`][h`k Uf"`Gc``hY`Yf`gWXi`X][`[YgdfcWXYb`k YfXYbž`_ÒbbhY`YfgY]b`@YVYb`]a ; YZÀb[b]g'j YfVf]b[Yb"

 $\cdot \cdot \cdot u$

8 Y hU]`q

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. '_fmd hc!bYk g"Uh